

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 September 2005 (09.09.2005)

PCT

(10) International Publication Number
WO 2005/082248 A1

(51) International Patent Classification⁷: **A61B 5/07**, 1/04

(74) Agent: **BARDINI, Marco, Luigi**; Società Italiana Brevetti S.p.A., Corso dei Tintori, 25, I-50122 Firenze (IT).

(21) International Application Number:
PCT/IB2005/000398

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 17 February 2005 (17.02.2005)

(25) Filing Language: Italian

(26) Publication Language: English

(30) Priority Data:
PI2004A000008 17 February 2004 (17.02.2004) IT

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

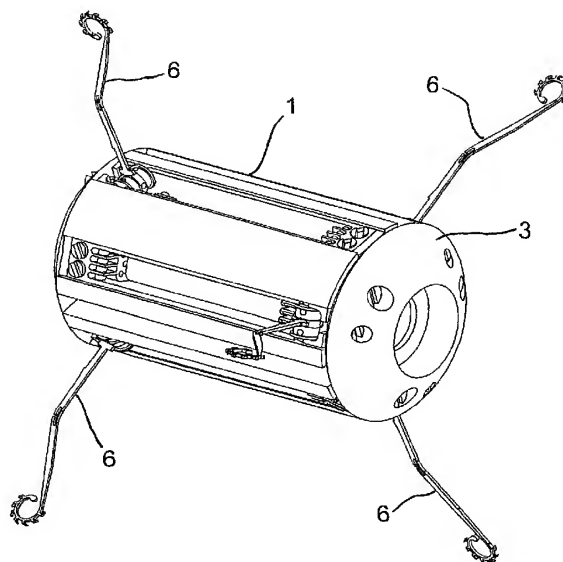
(71) Applicants and

(72) Inventors: **DARIO, Paolo** [IT/IT]; Via Cimabue, 3, I-57100 Livorno (IT). **MENCIASSI, Arianna** [IT/IT]; Via Leopardi 6, I-56025 Pontedera (IT). **STEFANINI, Cesare** [IT/IT]; Via Tosco Romagnola, 1444, Sant'Andrea a Cascina, I-56021 Cascina (IT). **GORINI, Samuele** [IT/IT]; Via Pietrone, 1, I-56020 Montecatoli (IT). **PERNORIO, Giuseppe** [IT/IT]; Via Liguria, 9, I-56100 Pisa (IT). **ACCOTO, Dino** [IT/IT]; Via Provinciale, 248, I-73032 Andrano (IT).

Published:
— with international search report

[Continued on next page]

(54) Title: TELEOPERATED ENDOSCOPIC CAPSULE EQUIPPED WITH ACTIVE LOCOMOTION SYSTEM



(57) Abstract: A teleoperated endoscopic capsule for diagnostic and therapeutic purposes inside an animal body cavity, comprising a body (1) with a plurality of locomotion modules (5) placed on its surface, suitable for moving said body in the body cavity. The capsule also comprises an energy source inside said body and a microcontroller in the body (1) for actuating the locomotion modules (5) on the basis of commands teletransmitted by an operator. A video camera is then provided for capturing images controlled by said microcontroller and a transceiver system for receiving the commands teletransmitted by the operator and for transmitting the images gained through the video camera.

WO 2005/082248 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.